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Western blot analysis of chloroplast, embryoplast and cytoplasm using sucrose synthase antibodies

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Plastids are functionally and structurally diverse organelles and include chloroplasts (found in leaves), leucoplasts (roots), chromoplasts (flower petals), and amyloplasts (tubers). Plant embryos also contain plastids and those present in oilseeds such as rapeseed (*Brassica* napus) have properties of both chloroplasts and leucoplasts, and are therefore termed embryoplasts. After isolation of plastids from developing embryos of oilseed rape (*Brassica napus* cv. Reston), embryoplast proteins were identified by liquid chromatography-mass spectrometry. One of the proteins identified was sucrose synthase, a sucrose cleaving enzyme principally located in the cytosol. To confirm that sucrose synthase is associated with isolated embryoplasts, we performed western blots on the protein using four different sucrose synthase antibodies. The western blot results will be presented.